

AMENDED

Nº 48641

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office DEC 19 1984  
Returned to applicant for correction JAN 10 1985  
Corrected application filed MAR 7 1985  
Map filed MAR 11 1985

The applicant Geothermal Enterprises of Nevada, Inc.  
P.O. Box 70, of Hawthorne,  
Street and No. or P.O. Box No. City or Town  
Nevada 89415, hereby make application for permission to appropriate the public  
State and Zip Code No. waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.) Incorporated 11/28/84 in the  
State of Nevada

1. The source of the proposed appropriation is underground  
Name of stream, lake, spring, underground or other source
2. The amount of water applied for is 11.0 second-feet  
One second-foot equals 448.83 gals. per min.  
(a) If stored in reservoir give number of acre-feet
3. The water to be used for Geothermal heat extraction  
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.
4. If use is for:  
(a) Irrigation, state number of acres to be irrigated  
(b) Stockwater, state number and kinds of animals to be watered  
(c) Other use (describe fully under "No. 12. Remarks")  
(d) Power:  
(1) Horsepower developed  
(2) Point of return of water to stream
5. The water is to be diverted from its source at the following point within the SW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 28,  
Describe as being within a 40-acre subdivision of public  
T.8N., R.30E., M.D.B.&M., or at a point from which the W $\frac{1}{4}$  corner of said  
survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.  
Section 28 bears S 44°57'00"W. a distance of 287.10 feet.
6. Place of use Sections 27, 28, 33 and 34 all within T.8N., R.30E., M.D.B.&M.  
Describe by legal subdivision. If on unsurveyed land, it should be so stated.
7. Use will begin about January 1 and end about December 31, of each year.  
Month and Day Month and Day
8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) Drilled well, pump, motor, distribution  
State manner in which water is to be diverted, i.e. diversion structure, ditches and  
system and heat exchangers.  
flumes, drilled well with pump and motor, etc.
9. Estimated cost of works \$10,000,000.00

10. Estimated time required to construct works..... 3 years  
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use..... 5 years

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

Estimated rate of consumption is 5,000 gallons per minute, 24 hours  
per day, 365 days per year.

Send copies of all correspondence to Willard L Jackson, P.O. Box 808  
Greenville, Calif. 95947

By..... s/Wyatt J. Owens  
P.O. Box 44  
Smith, Nevada 89430

Compared..... 11/ se..... js/bc

Protested.....

APPROVAL..... OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of geothermal fluid herein granted is only a temporary allowance and that the final right obtained under this permit will be dependent upon the amount actually placed to beneficial use. It is also understood that this right must allow for a reasonable decrease of fluid pressure and heat. The well shall be equipped and maintained to prevent any waste of the geothermal fluid. Accurate measurements must be kept of discharge of the production and the amount of fluid injected into the injection well to determine the total amount of fluid consumed for a beneficial use.

The production and injection well are to be cemented from the producing levels to the surface to protect fresh water zones. This permit is issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes and fresh, cold water aquifers are not to be diverted. The used geothermal fluids are to be returned to the source via the injection well. The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies. A detailed log on the injection well and/or other analyses of the system used for returning the used geothermal to the source must be submitted together with the Proof of Completion.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed..... 11.0..... cubic feet per second.

Work must be prosecuted with reasonable diligence and be completed on or before..... December 31, 1986

Proof of completion of work shall be filed on or before..... January 31, 1987

Application of water to beneficial use shall be made on or before..... December 31, 1990

Proof of the application of water to beneficial use shall be filed on or before..... January 31, 1991

Map in support of proof of beneficial use shall be filed on or before..... January 31, 1991

Completion of work filed..... IN TESTIMONY WHEREOF, I..... PETER G. MORROS  
State Engineer of Nevada, have hereunto set my hand and the seal of

Proof of beneficial use filed..... my office, this 31st day of December

Cultural map filed.....

Certificate No..... Issued.....

A.D. 19 85  
  
State Engineer

## (PERMIT TERMS CONTINUED)

An annual report for this well must be filed under this permit describing the amount of geothermal fluid consumed to a beneficial use for the calendar year. This report must also detail the amount of fluid produced and injected.

The total withdrawal of the geothermal fluid shall be limited to 7961 acre-feet per year but the total consumptive use of the geothermal fluid is limited to only incidental fluid losses in the system and in no case shall it amount to more than 1.0 percent of the volume withdrawn annually. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto.

